Connecting via Winsock to Dialog

Logging in to Dialog

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
****
ENTER PASSWORD:
****
Welcome to DIALOG

Dialog level 02.19.00D

Last logoff: 20aug03 15:53:01
Logon file405 21aug03 09:18:38
*** ANNOUNCEMENT ***
***
--File 654 - US published applications from March 15, 2001 to the present are now online. Please see HELP NEWS 654 for details.

***
--File 581 - The 2003 annual reload of Population Demographics is complete. Please see Help News581 for details.

***
***
--File 990 - NewsRoom now contains February 2003 to current records. File 992 - NewsRoom 2003 archive has been newly created and contains records from January 2003. The oldest months's records roll out of File 990 and into File 992 on the first weekend of each month. To search all 2003 records BEGIN 990, 992, or B NEWS2003, a new OneSearch category.
***
--Connect Time joins DialUnits as pricing options on Dialog. See HELP CONNECT for information.
***
***
--SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.
***
--Important news for public and academic libraries. See HELP LIBRARY for more information.
***
--Important Notice to Freelance Authors--
See HELP FREELANCE for more information
***
NEW FILES RELEASED
***World News Connection (File 985)
***Dialog NewsRoom - 2003 Archive (File 992)
***TRADEMARKSCAN-Czech Republic (File 680)
***TRADEMARKSCAN-Hungary (File 681)
***TRADEMARKSCAN-Poland (File 682)
***
UPDATING RESUMED
***
RELOADED
***Population Demographics -(File 581)

***CLAIMS Citation (Files 220-222)

REMOVED
***

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<
****
* * * * See HELP NEWS 225 for information on new search prefixes
and display codes

*** ***

SYSTEM:HOME
Cost is in DialUnits
Menu System II: D2 version 1.7.9 term=ASCII
*** DIALOG HOMEBASE(SM) Main Menu ***

Information:
1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:
6. DIALOG(R) Document Delivery
7. Data Star(R)

/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online
service. Enter a BEGIN command plus a file number to search a database
(e.g., B1 for ERIC).
? b 410

21aug03 09:18:40 User268147 Session D136.1
$0.00 0.171 DialUnits FileHomeBase
$0.00 Estimated cost FileHomeBase
$0.00 Estimated cost this search
$0.00 Estimated total session cost 0.171 DialUnits

File 410:Chronolog(R) 1981-2003/Aug
(c) 2003 The Dialog Corporation

Set Items Description
--- ----- ---------
? set hi %%%;set hi %%%
HILIGHT set on as "
HILIGHT set on as "
? b 34
21aug03 09:18:45 User268147 Session D136.2
$0.00 0.076 DialUnits File410
$0.00 Estimated cost File410
$0.01 TELNET
$0.01 Estimated cost this search
$0.01 Estimated total session cost 0.247 DialUnits

File 34:SciSearch(R) Cited Ref Sci 1990-2003/Aug W3

(c) 2003 Inst for Sci Info

Set Items Description
--- ----- ----------
? e cr=rowe peter

? s e39
S3 3 CR='ROWE PSN, 2000, V83, P192, ARCH DIS CHILD'
? s s1 or s2 or s3
91 S1
127 S2
3 S3
S4 201 S1 OR S2 OR S3
? s py<=2000
Processing
S5 9366636 PY<=2000
? s s4 and s5
201 S4
9366636 S5
S6 139 S4 AND S5
? s s6 and (july or august)
139 S6
31954 JULY
27169 AUGUST
S7 0 S6 AND (JULY OR AUGUST)
? s s6 and (jul or aug)
139 S6
114 JUL
3723 AUG
S8 0 S6 AND (JUL OR AUG)
? s s6 and (mepe or rgd)
139 S6
26 MEPE
3304 RGD
S9 1 S6 AND (MEPE OR RGD)
? type s9/full/all

9/9/1
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

08828447 Genuine Article#: 334PU Number of References: 56
Title: MEPE, a new gene expressed in bone marrow and tumors causing osteomalacia
Author(s): Rowe PSN (REPRINT) ; deZoysa PA; Dong R; Wang HR; White KE; Econs MJ; Oudet CL
Corporate Source: ROYAL FREE & UNIV COLL MED SCH,DEPT BIOCHEM & MOL BIOL, CTR MOL OSTEO RENAL RES, ROWLAND HILL ST/LONDON NW3 2PF//ENGLAND/ (REPRINT); ULP,INSERM, CNRS, INST GENET & BIOL MOL & CELLULARE/ILLKIRCH GRAFFENSTADEN//FRANCE/; INDIANA UNIV,SCH MED, DEPT MED/INDIANAPOLIS//IN/46202
Journal: GENOMICS, 2000, V67, N1 (JUL 1), P54-68
ISSN: 0888-7543 Publication date: 20000701
Publisher: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495
Language: English Document Type: ARTICLE
Geographic Location: ENGLAND; FRANCE; USA
Subfile: CC LIFE--Current Contents, Life Sciences
Journal Subject Category: BIOTECHNOLOGY & APPLIED MICROBIOLOGY; GENETICS & HEREDITY
Abstract: Oncogenic hypophosphatemic osteomalacia (OHO) is characterized by a renal phosphate leak, hypophosphatemia, low-serum calcitriol

(1,25-vitamin-D3), and abnormalities in skeletal mineralization. Resection of OHO tumors results in remission of the symptoms, and there is evidence that a circulating phosphaturic factor plays a role in the bone disease. This paper describes the characterization and cloning of a gene that is a candidate for the tumor-secreted phosphaturic factor. This new gene has been named MEPE (matrix extracellular phosphoglycoprotein) and has major similarities to a group of bone-tooth mineral matrix phospho-glycoproteins (osteopontin (OPN; HGMW-approved symbol SPP1), dentin sialo phosphoprotein (DSPP), dentin matrix protein 1 (DMP1), bone sialoprotein II (IBSP), and bone morphogenetic proteins (BMP). AU the proteins including MEPE contain RGD sequence motifs that are proposed to be essential for integrin-receptor interactions. Of further interest is the finding that MEPE, OPN, DSPP, DMP1, IBSP, and BMP3 all map to a defined region in chromosome 4q. Refined mapping localizes MEPE to 4q21.1 between ESTs D482785 (WI-6336) and D4S2844 (WI-3770). MEPE is 525 residues in length with a short N-terminal signal peptide. High-level expression of MEPE mRNA occurred in all four OHO tumors screened. Three of 11 non-OHO tumors screened contained trace levels of MEPE expression (detected only after RT-PCR and Southern P-39 analysis). Normal tissue expression was found in bone marrow and brain with very-low-level expression found in lung, kidney, and human placenta. Evidence is also presented for the tumor secretion of clusterin (HGMW-approved symbol CLU) and its possible role as a cytotoxic factor in one of the OHO patients described. (C) 2000 Academic Press.

```
Id
? s s6 and ("matrix extracellular")
        139 S6
          0 MATRIX EXTRACELLULAR
   S10    0 S6 AND ("MATRIX EXTRACELLULAR")
? s s6 and (phosphoglycoprotein or phospho-glycoprotein)
        139 S6
         89 PHOSPHOGLYCOPROTEIN
          0 PHOSPHO-GLYCOPROTEIN
   S11    1 S6 AND (PHOSPHOGLYCOPROTEIN OR PHOSPHO-GLYCOPROTEIN)
? s s9 or s11
          1 S9
          1 S11
   S12    1 S9 OR S11
? ds

Set    Items  Description
S1        91  CR='ROWE PS, 1990, THESIS U NOTTINGHAM' OR CR='ROWE PS, 19-
              91, CYTOGENET CELL GENET' OR CR='ROWE PS, 1996, V18, P159, BO-
              NE' OR E7 OR E8 OR E9 OR E10 OR E11 OR E12 OR E13 OR E14 OR E-
              15 OR E16 OR E17 OR E18 OR E19 OR E20 OR E21
S2       127  CR='ROWE PSN, 1994, V91, P291, HUM GENET' OR CR='ROWE PSN,
              1994, V93, P291, HUM GENET' OR CR='ROWE PSN, 1994, V94, P457,
              HUM GENET' OR E25 OR E26 OR E27 OR E28 OR E29 OR E30 OR E31 OR
              E32 OR E33 OR E34 OR E35 OR E36 OR E37 OR E38
S3         3  CR='ROWE PSN, 2000, V83, P192, ARCH DIS CHILD'
S4       201  S1 OR S2 OR S3
S5   9366636  PY<=2000
S6       139  S4 AND S5
S7         0  S6 AND (JULY OR AUGUST)
S8         0  S6 AND (JUL OR AUG)
S9         1  S6 AND (MEPE OR RGD)
S10        0  S6 AND ("MATRIX EXTRACELLULAR")
S11        1  S6 AND (PHOSPHOGLYCOPROTEIN OR PHOSPHO-GLYCOPROTEIN)
S12        1  S9 OR S11
```

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1653lxm

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

********** Welcome to STN International **********

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Feb 24 PCTGEN now available on STN
NEWS 4 Feb 24 TEMA now available on STN
NEWS 5 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 6 Feb 26 PCTFULL now contains images
NEWS 7 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8 Mar 24 PATDPAFULL now available on STN
NEWS 9 Mar 24 Additional information for trade-named substances without structures available in REGISTRY
NEWS 10 Apr 11 Display formats in DGENE enhanced
NEWS 11 Apr 14 MEDLINE Reload
NEWS 12 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 13 Jun 13 Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 14 Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 15 Apr 28 RDISCLOSURE now available on STN
NEWS 16 May 05 Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 17 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 18 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19 May 19 Simultaneous left and right truncation added to WSCA
NEWS 20 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 22 Jun 06 PASCAL enhanced with additional data
NEWS 23 Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS 24 Jun 25 HSDB has been reloaded
NEWS 25 Jul 16 Data from 1960-1976 added to RDISCLOSURE
NEWS 26 Jul 21 Identification of STN records implemented
NEWS 27 Jul 21 Polymer class term count added to REGISTRY
NEWS 28 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 29 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 19:30:50 ON 11 AUG 2003

=> file registry

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		0.21	0.21

FILE 'REGISTRY' ENTERED AT 19:30:56 ON 11 AUG 2003
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STRUCTURE FILE UPDATES: 10 AUG 2003 HIGHEST RN 563979-18-0
DICTIONARY FILE UPDATES: 10 AUG 2003 HIGHEST RN 563979-18-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s tdlqergdndispfsgdgqpfkd/sqep
2 TDLQERGDNDISPFSGDGQPFKD/SQEP
52754 SQL=23
L1 2 TDLQERGDNDISPFSGDGQPFKD/SQEP
(TDLQERGDNDISPFSGDGQPFKD/SQEP AND SQL=23)

=> s TDLQERGDNDISPFSGDGQPFKD/SQsp
L2 15 TDLQERGDNDISPFSGDGQPFKD/SQSP

=> s dfegsgytdlqergd/sqsp
L3 23 DFEGSGYTDLQERGD/SQSP

=> s dfegsgytdlqergd/sqep
2 DFEGSGYTDLQERGD/SQEP
101442 SQL=15
L4 2 DFEGSGYTDLQERGD/SQEP
(DFEGSGYTDLQERGD/SQEP AND SQL=15)

=> s ytdlqergdndispf/sqep
1 YTDLQERGDNDISPF/SQEP
101442 SQL=15
L5 1 YTDLQERGDNDISPF/SQEP

(YTDLQERGDNDISPF/SQEP AND SQL=15)

=> s ytdlqergdndispf/sqsp
L6 17 YTDLQERGDNDISPF/SQSP

=> s ergdndispfsgdgq/sqep
2 ERGDNDISPFSGDGQ/SQEP
101442 SQL=15
L7 2 ERGDNDISPFSGDGQ/SQEP
(ERGDNDISPFSGDGQ/SQEP AND SQL=15)

=> s ergdndispfsgdgq/sqsp
L8 17 ERGDNDISPFSGDGQ/SQSP

=> s l1 or l2 or l3 or l4 or l5 or l6 or l7 or l8
L9 28 L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8

=> s l9 and bone
42012 BONE
L10 1 L9 AND BONE

=> s l9 and (phosphoglycoprotein or "phospho glycoprotein" or phosphatonin or osteopontin or sialo?)
4 PHOSPHOGLYCOPROTEIN
29614 "PHOSPHO"
26676 "GLYCOPROTEIN"
4 "PHOSPHO GLYCOPROTEIN"
("PHOSPHO"(W)"GLYCOPROTEIN")
9 PHOSPHATONIN
123 OSTEOPONTIN
1290 SIALO?
L11 5 L9 AND (PHOSPHOGLYCOPROTEIN OR "PHOSPHO GLYCOPROTEIN" OR PHOSPHA
TONIN OR OSTEOPONTIN OR SIALO?)

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 164.34 164.55

FILE 'CAPLUS' ENTERED AT 19:36:36 ON 11 AUG 2003
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FILE COVERS 1907 - 11 Aug 2003 VOL 139 ISS 7
FILE LAST UPDATED: 10 Aug 2003 (20030810/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l9

L12 13 L9

=> s l10
L13 3 L10

=> s l11
L14 6 L11

=> s l12 or l13 or l14
L15 13 L12 OR L13 OR L14

=> d l15 all 1-13

L15 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:571103 CAPLUS
TI Albumin fusion proteins for prolonged shelf-life of therapeutic proteins
IN Ballance, David James; Turner, Andrew John; Rosen, Craig A.; Haseltine, William A.
PA Human Genome Sciences, Inc., USA; Delta Biotechnology Limited; Principia Pharmaceutical Corporation
SO PCT Int. Appl., 598 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C12N
CC 63-3 (Pharmaceuticals)
Section cross-reference(s): 3
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003060071	A2	20030724	WO 2002-US40891	20021223

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-341811P P 20011221
US 2002-350358P P 20020124
US 2002-351360P P 20020128
US 2002-359370P P 20020226

AB The present invention encompasses albumin fusion proteins. Many therapeutic proteins in their native state or when recombinantly produced are typically labile mols. exhibiting short shelf-lives, particularly when formulated in aq. solns.; fusions of the therapeutic protein with human serum albumin have a longer serum half-life and/or stabilized activity in soln. (or in a pharmaceutical compn.) in vitro and/or in vivo than the corresponding unfused therapeutic mols. Thus, albumin fusion proteins are provided comprising granulocyte colony-stimulating factor, interleukin 2, parathormone, erythropoietin, interferon .beta., interferon .alpha.2, interferon A/D hybrid, a single-chain insulin analog, growth hormone, and (7-36)GLP-1. Nucleic acid mols. encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Addnl. the present invention encompasses pharmaceutical compns. comprising albumin fusion proteins and methods of treating or preventing diseases,

disorders or conditions related to diabetes mellitus using albumin fusion proteins of the invention.
ST albumin fusion therapeutic protein shelflife
IT Animal cell line
of therapeutic proteins)

L15 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:978333 CAPLUS
DN 138:33382
TI Integrin binding motif containing peptides and methods of treating skeletal diseases
IN Kumagai, Yoshinari; Yoneda, Toshiyuki; Blacher, Russell Wayne
PA USA
SO U.S. Pat. Appl. Publ., 30 pp., Cont.-in-part of U.S. Ser. No. 641,034.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K039-00
ICS C07K014-435
NCL 424185100; 530324000; 530326000; 530327000
CC 1-12 (Pharmacology)
Section cross-reference(s): 62, 63
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002197267	A1	20021226	US 2001-812485	20010319
WO 2002014360	A1	20020221	WO 2001-US25542	20010814

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001086491	A5	20020225	AU 2001-86491	20010814
EP 1309616	A1	20030514	EP 2001-965941	20010814

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI US 2000-641034	A2	20000816		
US 2001-812485	A	20010319		
WO 2001-US25542	W	20010814		

AB Peptide sequences comprising 10 to 50 amino acids are disclosed. The sequences are characterized by contg. at least one of an integrin-binding motif such as an RGD sequence, a glycosaminoglycan binding motif, and a calcium binding motif, and the remainder of amino acids contiguous with the RGD sequence in matrix extracellular phosphoglycoprotein. The sequences may be formulated for injection or dispersed in toothpaste or a mouthwash or gum patch and administered to enhance bone/tooth growth and/or reduce excessive urinary phosphate loss from the body.
ST integrin binding peptide bone growth urine phosphate loss
IT Integrins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
methods of treating skeletal diseases)

L15 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:216975 CAPLUS
DN 137:227273
TI Prediction of unidentified human genes on the basis of sequence similarity to novel cDNAs from cynomolgus monkey brain
AU Osada, Naoki; Hida, Munetomo; Kusuda, Jun; Tanuma, Reiko; Hirata, Makoto;

Hirai, Momoki; Terao, Keiji; Suzuki, Yutaka; Sugano, Sumio; Hashimoto, Katsuyuki
CS Div. Genetic Resources, National Inst. Infectious Diseases, Shinjuku-ku, 162-8640, Japan
SO GenomeBiology [online computer file] (2001), 3(1), No pp. given
CODEN: GNBLFW; ISSN: 1465-6914
URL: http://genomebiology.com/2001/3/1/research/0006
PB BioMed Central Ltd.
DT Journal; (online computer file)
LA English
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 7, 13
AB The complete assignment of the protein-coding regions of the human genome is a major challenge for genome biol. today. We have already isolated many hitherto unknown full-length cDNAs as orthologs of unidentified human genes from cDNA libraries of the cynomolgus monkey (Macaca fascicularis) brain (parietal lobe and cerebellum). In this study, we used cDNA libraries of three other parts of the brain (frontal lobe, temporal lobe and medulla oblongata) to isolate novel full-length cDNAs. The entire sequences of novel cDNAs of the cynomolgus monkey were detd., and the orthologous human cDNA sequences were predicted from the human genome sequence. We predicted 29 novel human genes with putative coding regions sharing an open reading frame with the cynomolgus monkey, and we confirmed the expression of 21 pairs of genes by the reverse transcription-coupled polymerase chain reaction method. The hypothetical proteins were also functionally annotated by computer anal. In conclusion, the 29 new genes had not been discovered in recent explorations for novel genes in humans, and the ab initio method failed to predict all exons. Thus, monkey cDNA is a valuable resource for the prepn. of a complete human gene catalog, which will facilitate post-genomic studies.
ST sequence Macaca human cattle brain protein enzyme cDNA
IT Proteins
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(19) Wolfsberg, T; Nucleic Acids Res 1997, V28, P1626

L15 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:142748 CAPLUS
DN 136:205385
TI Integrin binding motif containing peptides and methods of treating skeletal diseases
IN Kumagai, Yoshinari; Blacher, Russell Wayne; Yoneda, Toshiyunki
PA Big Bear Bio Inc., USA
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K014-00
CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 62
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002014360	A1	20020221	WO 2001-US25542	20010814
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
AU 2001086491	A5	20020225	AU 2001-86491	20010814
EP 1309616	A1	20030514	EP 2001-965941	20010814
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI US 2000-641034	A	20000816		
US 2001-812485	A	20010319		
WO 2001-US25542	W	20010814		

OS MARPAT 136:205385

same 8/16/00 foreign pat.

AB Peptide sequences comprising 10 to 50 amino acids are disclosed. The sequences are characterized by contg. at least one of an integrin binding motif such as an RGD sequence, a glycosaminoglycan binding motif, and a calcium binding motif, and the remainder of amino acids contiguous with the RGD sequence in matrix extracellular phosphoglycoprotein. The sequences may be formulated for injection or dispersed in toothpaste or a mouthwash or gum patch and administered to enhance bone/tooth growth and/or reduce excessive urinary phosphate loss from the body.
ST integrin binding peptide dentifrice bone growth tooth phosphate loss
IT Glycosaminoglycans, biological studies
Integrins
(3) University College London; WO 9960017 A2 1999 CAPLUS

L15 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:142473 CAPLUS
DN 136:189126
TI Dental products comprising a bone growth-enhancing peptide
IN Yoneda, Toshiyuki; Nomizu, Motoyoshi; Kumagai, Yoshinari
PA Big Bear Bio Inc., USA
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K007-16
ICS A61K007-22; A61K038-00; A61K038-16; C07K017-00
CC 62-7 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002013775	A1	20020221	WO 2001-US25101	20010809
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001083268	A5	20020225	AU 2001-83268	20010809
EP 1313440	A1	20030528	EP 2001-962055	20010809
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRAI US 2000-225879P P 20000816
WO 2001-US25101 W 20010809
AB Dental products such as toothpastes, mouthwash and dental floss are disclosed which products are enhanced by having dissolved, dispersed or coated thereon a compd. which promotes bone growth. Preferred compds. are peptide sequences comprising 10 to 50 amino acids are disclosed. The sequences are characterized by contg. an integrin-binding motif such as RGD sequence and the remainder of amino acids contiguous with the RGD sequence in matrix extracellular phosphoglycoprotein. The sequences may be formulated for dispersal in toothpaste or a mouthwash and administered to enhance bone/tooth growth. When the dental products are used repeatedly over time they enhance good dental health.
ST dentifrice bone growth promoter RGD peptide sequence
(7) Tseng; US 6027592 A 2000

L15 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:935786 CAPLUS
DN 136:48810

TI Full-length cDNA clones for polypeptide hormone phosphatonin and its use in drug screening
IN Kurokawa, Tomofumi; Yamada, Takao; Morimoto, Shigeto
PA Takeda Chemical Industries, Ltd., Japan
SO PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM C12N015-12
ICS C12P021-02; C07K014-47; C12N005-10; C07K016-18; A61K045-00; A61P003-12; G01N033-566; G01N033-50; G01N033-15
CC 2-2 (Mammalian Hormones)
Section cross-reference(s): 3
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001098495	A1	20011227	WO 2001-JP5263	20010620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001074566	A5	20020102	AU 2001-74566	20010620
JP 2002335973	A2	20021126	JP 2001-186905	20010620
EP 1293568	A1	20030319	EP 2001-941123	20010620
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI JP 2000-191088	A	20000621		
WO 2001-JP5263	W	20010620		

AB The present invention relates to full-length cDNA clones for a previously isolated human protein phosphatonin, having phospho-diuretic, hypophosphatemia induction, sodium-dependent phosphate transport inhibition , and/or 25-hydroxyvitamin D3-1.alpha.-hydroxylase activity regulation effect, and use in drug screening. Also provided are vectors, host cells, antibodies, and recombinant methods for producing this human protein. The invention further relates to methods useful for diagnosis and therapy for disorders related to this novel human protein. Screening for receptor agonists or antagonists, and proteinase inhibitors, as drug candidates are claimed. Full-length cDNA clones contg. the sequence coding for a fragment previously reported (WO 9960017) were obtained from a human cDNA library derived from oncogenic hypophosphatemic osteomalacia (OHO). patient. The encoded protein has 525 amino acids, having extra 95 amino acids including the initial Met to the N-terminal of the fragment reported in WO 9960017. The rest of the sequence was identical except for a nucleotide at 293 position (C for G), causing an amino acid substitution (Leu for Val). Various motifs, such as glycosaminoglycan attachment sites, RGD sequence, myristoylation sites, phosphorylation sites for protein kinase C, casein kinase II, cAMP-dependent protein kinase, or tyrosine kinase, were identified by sequence anal. Phosphorylation by casein kinase II was demonstrated for the recombinant phosphatonin expressed in E. coli. Prodn. of antibodies and use in establishment of ELISA for phosphatonin detection is also described. Recombinant expression in CHO cells and demonstration of phosphate intake inhibition in proximal renal tubule epithelial cells, are also described.
ST human phosphatonin full length cDNA sequence drug screening
(3) Rowe, P; Bone 1996, V18(2), P159 CAPLUS

L15 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:730817 CAPLUS
DN 135:268198
TI Sequences of human oncogenic osteomalacia-related protein 1 (OOM-1) and therapeutic uses thereof
IN Schiavi, Susan; Madden, Stephen; Manavalan, Parthasarathy; Levine, M. D. Michael; Jan De Beur, Suzanne
PA Genzyme Corporation, USA; Johns Hopkins University
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K014-47
CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 1, 14
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001072826	A2	20011004	WO 2001-US9289	20010322
WO 2001072826	A3	20020523		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002102641	A1	20020801	US 2001-814550	20010322
PRAI US 2000-191786P	P	20000324		
US 2000-241598P	P	20001019		

AB The invention provides sequences of protein and cDNA of human oncogenic osteomalacia-related protein (OOM-1). The invention also provides expression systems, including gene delivery vehicles such as liposomes and vectors, and host cells contg. the polynucleotides. The present invention further provides proteins encoded by the polynucleotides, antisense oligonucleotides, antibodies that specifically recognize and bind to these proteins, as well as hybridoma cell lines. In particular, the invention discloses that the proteins are involved in modulating bone mineralization and phosphate metab. The invention also provides methods of monitoring expression of the gene and detecting neoplastic cells assocd. with oncogenic osteomalacia. The invention discloses methods for modulating bone mineralization activity and phosphate metab. as well as methods for treating diseases related to abnormal bone mineralization and abnormal phosphate metab.
ST human oncogenic osteomalacia gene bone mineralization phosphate metab sequence
IT Databases
(DNA, contg. OOM-1 DNA sequence; sequences of oncogenic

L15 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:654733 CAPLUS
DN 135:206498
TI Sequences of Mammalian osteoregulins and therapeutic uses thereof
IN Brown, Thomas Aquinas; De Wet, Jeffrey Roux; Gowen, Lori Christine; Hames, Lynn Marie
PA Pfizer Products Inc., USA
SO Eur. Pat. Appl., 90 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C12N015-12

ICS C07K014-47; A01K067-027; C12Q001-68; G01N033-68
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1130098	A2	20010905	EP 2001-301768	20010227
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001321187	A2	20011120	JP 2001-55757	20010228

PRAI US 2000-185617P P 20000229
US 2000-234500P P 20000922
AB The invention provides a novel cDNA transcript expressed specifically in rat osteoblasts and osteocytes that encodes a 45 kDa polypeptide. The mouse and human forms of this novel protein are also identified. Characterization revealed the protein to be a secreted, RGD motif contg. protein with a limited homol. to dmpl, an extracellular matrix protein present in bone and teeth. Thus, this mammalian protein is designated as "osteoregulin.". Further studies of osteoregulin expression patterns and function have confirmed that osteoregulin plays an important role in controlling bone homeostasis, adipose regulation, and the calcification of atherosclerotic plaques. The invention features novel osteoregulin polypeptides, nucleic acid sequences which encode the polypeptides, vectors, antibodies, hosts which express heterologous osteoregulins, and animal cells and mammals with a targeted disruption of an osteoregulin gene. These osteoregulins play a role in regulating bone homeostasis, adiposity, and the calcification of atherosclerotic plaques. Accordingly, the invention also features screening assays to identify modulators of osteoregulin activity as well as methods of treating mammals for diseases or disorders assocd. with osteoregulin activity.
ST sequence osteoregulin mouse human rat
IT RNA splicing
(alternative; sequences of Mammalian osteoregulins and therapeutic uses therapeutic uses thereof)

L15 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:654731 CAPLUS
DN 135:206497
TI Primers for synthesizing full-length cDNA clones from human tissues
IN Ota, Toshio; Nishikawa, Tetsuo; Isogai, Takao; Hayashi, Koji; Ishii, Shizuko; Kawai, Yuri; Wakamatsu, Ai; Sugiyama, Tomoyasu; Nagai, Keiichi; Kojima, Shinichi; Otsuki, Tetsuji; Koga, Hisashi
PA Helix Research Institute, Japan
SO Eur. Pat. Appl., 1381 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C12N015-12
ICS C12N015-11; C12N015-10; C12N015-70; C12N015-85; C12N005-10; C12N001-21; C07K014-47; C07K016-18; C12Q001-68
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1130094	A2	20010905	EP 2000-114089	20000707
EP 1130094	A3	20011121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002017375	A2	20020122	JP 2000-253172	20000707

PRAI JP 1999-194486 A 19990708
JP 2000-118774 A 20000111

JP 2000-183765 A 20000502

AB Primers for synthesizing full-length cDNAs and their use are provided. Eight hundred thirty cDNAs encoding human proteins were isolated and nucleotide sequences of 5'-, and 3'-ends of the cDNAs were detd. Furthermore, primers for synthesizing the full-length cDNA are provided to clarify the function of the protein encoded by the cDNA. The full-length cDNAs of the present invention contg. the translation start sites provide information useful for analyzing the functions of the proteins. Tissue expression profiles and homol. comparisons with sequences from public databases are provided for each of the 830 cDNA clones.

ST cDNA cloning PCR primer sequence human; protein cDNA sequence human

IT Proteins, specific or class
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP cDNA clones from human tissues)

L15 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:444217 CAPLUS

DN 136:162014

TI MEPE, the gene encoding a tumor-secreted protein in oncogenic hypophosphatemic osteomalacia, is expressed in bone

AU Argiro, L.; Desbarats, M.; Glorieux, F. H.; Ecarot, B.

CS Genetics Unit, Shriners Hospital, Montreal, QC, H3G 1A6, Can.

SO Genomics (2001), 74(3), 342-351
CODEN: GNMCEP; ISSN: 0888-7543

PB Academic Press

DT Journal

LA English

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13

AB The MEPE (matrix extracellular phosphoglycoprotein) gene is a strong candidate for the tumor-derived phosphaturic factor in oncogenic hypophosphatemic osteomalacia (OHO). X-linked hypophosphatemia (XLH) is phenotypically similar to OHO and results from mutations in PHEX, a putative metallopeptidase believed to process a factor(s) regulating bone mineralization and renal phosphate reabsorption. Here we report the isolation of the murine homolog of MEPE, from a bone cDNA library, that encodes a protein of 433 amino acids, 92 amino acids shorter than human MEPE. Mepe, like Phex, is expressed by fully differentiated osteoblasts and down-regulated by 1,25-(OH)2D3. In contrast to Phex, Mepe expression is markedly increased during osteoblast-mediated matrix mineralization. Greater than normal Mepe mRNA levels were obsd. in bone and osteoblasts derived from Hyp mice, the murine homolog of human XLH. Our data provide the first evidence that MEPE/Mepe is expressedby osteoblasts in assocn. with mineralization. (c) 2001 Academic Press.

ST human mouse matrix extracellular phosphoglycoprotein cDNA sequence; Mepe expression oncogenic hypophosphatemic osteomalacia mouse bone

IT Gene, animal
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL

L15 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:338717 CAPLUS

DN 134:348627

TI Cloning of a novel polypeptide hormone phosphatonin and its use in treating disorders of phosphate metabolism, vitamin D metabolism, skeletal mineralization, and skeletal formation

IN Rowe, Peter

PA University College London, UK

SO PCT Int. Appl., 135 pp.
CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N015-16

ICS C07K014-575; C07K016-26; C12Q001-68; A61K038-22; A61P019-08
CC 2-2 (Mammalian Hormones)
Section cross-reference(s): 3
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001032878	A2	20010510	WO 2000-EP10747	20001031
WO 2001032878	A3	20011115		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1230369	A2	20020814	EP 2000-971403	20001031

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003513631	T2	20030415	JP 2001-535560	20001031
US 2003064498	A1	20030403	US 2002-132920	20020425
PRAI US 1999-434185	A	19991104		
GB 1999-26424	A	19991108		
WO 2000-EP10747	W	20001031		

AB The present invention relates to a novel human protein called phosphatonin, and isolated polynucleotides encoding this protein. Also provided are vectors, host cells, antibodies, and recombinant methods for producing this human protein. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to this novel human protein. The specific conditions that can be treated include disorders of phosphate metab., vitamin D metab., skeletal mineralization, and skeletal formation.
ST cDNA sequence human phosphatonin; metabolic disorder skeletal disorder treatment phosphatonin
(use of phosphatonin in combination with zinc metalloendopeptidase for treatment of a disorder of phosphate metab. or bone mineral loss)

L15 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:578625 CAPLUS
DN 134:1213
TI MEPE, a new gene expressed in bone marrow and tumors causing osteomalacia
AU Rowe, Peter S. N.; De Zoysa, Priyal A.; Dong, Rong; Wang, Huei Rong; White, Kenneth E.; Econs, Michael J.; Oudet, Claudine L.
CS Centre for Molecular Osteo-Renal Research, Department of Biochemistry and Molecular Biology, Royal Free and University College Medical School, London, NW3 2PF, UK
SO Genomics (2000), 67(1), 54-68
CODEN: GNMCEP; ISSN: 0888-7543
PB Academic Press
DT Journal
LA English
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 14
AB Oncogenic hypophosphatemic osteomalacia (OHO) is characterized by a renal phosphate leak, hypophosphatemia, low-serum calcitriol (1,25-vitamin-D3), and abnormalities in skeletal mineralization. Resection of OHO tumors results in remission of the symptoms, and there is evidence that a circulating phosphaturic factor plays a role in the bone disease. This paper describes the characterization and cloning of a gene that is a candidate for the tumor-secreted phosphaturic factor. This new gene has been named MEPE (matrix extracellular phosphoglycoprotein) and has major

wait for STIC article 8/11

similarities to a group of bone-tooth mineral matrix phosphoglycoproteins (osteopontin (OPN; HGMW-approved symbol SPP1), dentin sialo phosphoprotein (DSPP), dentin matrix protein 1 (DMP1), bone sialoprotein II (IBSP), and bone morphogenetic proteins (BMP)). All the proteins including MEPE contain RGD sequence motifs that are proposed to be essential for integrin-receptor interactions. Of further interest is the finding that MEPE, OPN, DSPP, DMP1, IBSP, and BMP3 all map to a defined region in chromosome 4q. Refined mapping localizes MEPE to 4q21.1 between ESTs D4S2785 (WI-6336) and D4S2844 (WI-3770). MEPE is 525 residues in length with a short N-terminal signal peptide. High-level expression of MEPE mRNA occurred in all four OHO tumors screened. Three of 11 non-OHO tumors screened contained trace levels of MEPE expression (detected only after RT-PCR and Southern 32P anal.). Normal tissue expression was found in bone marrow and brain with very-low-level expression found in lung, kidney, and human placenta. Evidence is also presented for the tumor secretion of clusterin (HGMW-approved symbol CLU) and its possible role as a cytotoxic factor in one of the OHO patients described. (c) 2000 Academic Press.

L15 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:753255 CAPLUS
DN 132:722
TI Cloning of human polypeptide hormone phosphatonin involved in phosphate metabolism
IN Rowe, Peter
PA University College London, UK
SO PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K014-00
CC 2-10 (Mammalian Hormones)
Section cross-reference(s): 1
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9960017	A2	19991125	WO 1999-EP3403	19990518
WO 9960017	A3	20000309		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2329054	AA	19991125	CA 1999-2329054	19990518
AU 9943624	A1	19991206	AU 1999-43624	19990518
GB 2339572	A1	20000202	GB 1999-11577	19990518
EP 1086225	A2	20010328	EP 1999-926320	19990518
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, IE, FI				
JP 2002515232	T2	20020528	JP 2000-549635	19990518

PRAI GB 1998-10681 A 19980518
GB 1998-19387 A 19980904
WO 1999-EP3403 W 19990518

AB The present invention relates to a novel human protein called phosphatonin (also known as Metastatic-tumor Excreted Phosphaturic-Element or MEPE), and isolated polynucleotides encoding this protein. Phosphatonin modulates Na+-dependent phosphate co-transport, vitamin D metab. via renal 25-hydroxyvitamin D3 24-hydroxylase or 25-hydroxyvitamin D3

10 - 50 aa long ??
RGD peptide too long

1.alpha.-hydroxylase, and/or bone mineralization. Phosphatonin was isolated from a cDNA library constructed form mRNA extd. from a meningeal phosphaturic-mesenchymal-tumor resected from a patient suffering from oncogenic hypophosphatemic osteomalacia. The cDNA codes for a protein 430 amino acids in length. Phosphatonin may be cleaved proteolytically in vivo, for example by the PHEX metalloendopeptidase. Also provided are vectors, host cells, antibodies, and recombinant methods for producing this human protein. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to this novel human protein.

ST phosphatonin phosphate metab hormone cDNA sequence human

IT Kidney, disea